

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247192

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100827 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11165.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

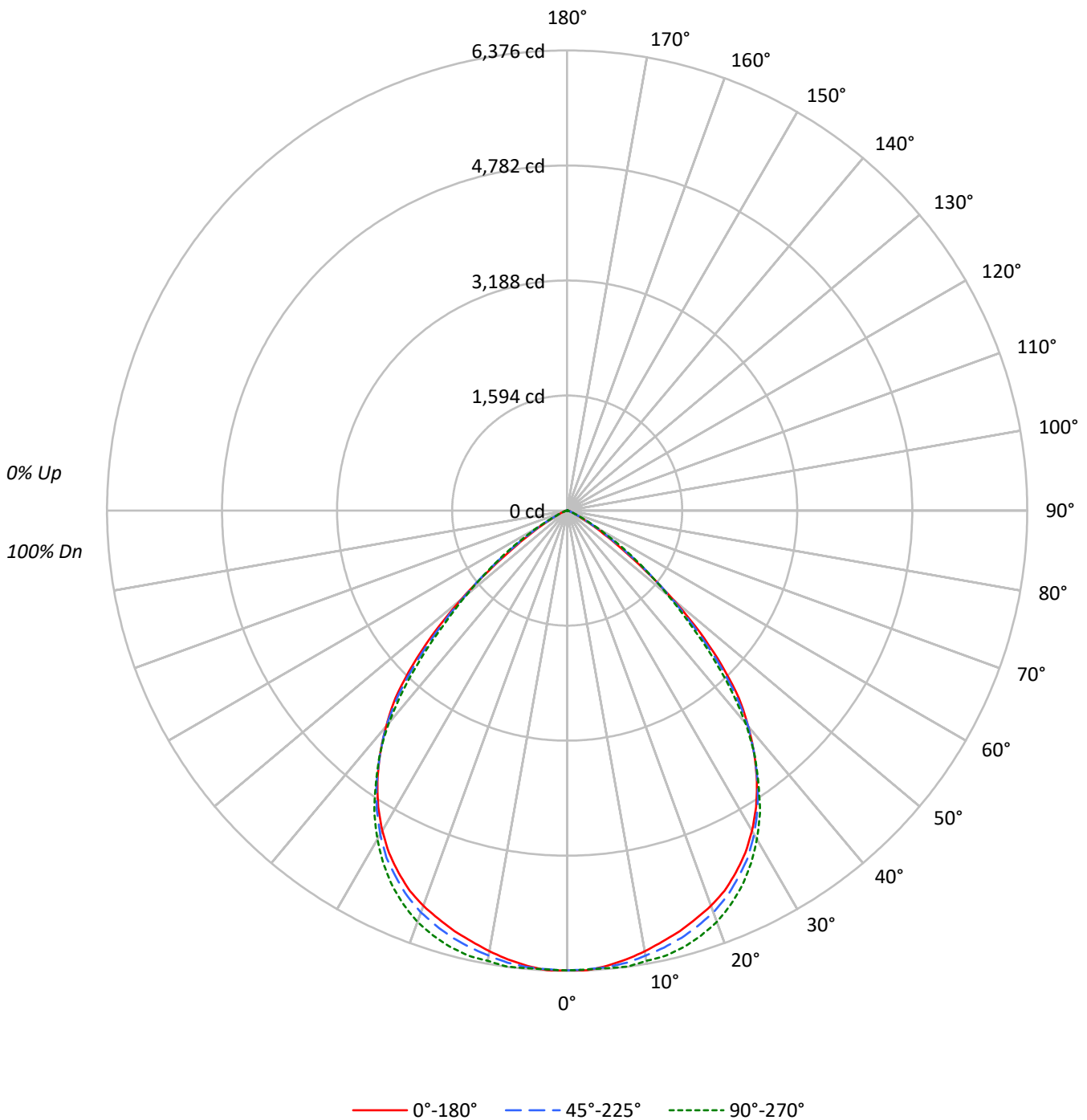
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	196477	196477	196477
5°	195983	196549	196964
10°	194125	196073	198365
15°	192589	195625	199829
20°	191244	194405	199084
25°	188249	190862	195094
30°	182420	184414	187238
35°	172523	173306	173946
40°	157147	157002	154893
45°	132127	128137	122607
50°	91772	89724	87325
55°	49095	54272	57487
60°	23762	26994	30454
65°	10405	10500	10945
70°	5608	5166	5058
75°	4944	4504	3193
80°	213	870	0
85°	425	425	2158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	603.6	5.4
10°-20°	1730.9	15.5
20°-30°	2582.7	23.1
30°-40°	2860.4	25.6
40°-50°	2230.7	20.0
50°-60°	935.0	8.4
60°-70°	187.3	1.7
70°-80°	29.8	0.3
80°-90°	4.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4917.3	44.0
0°-40°	7777.6	69.7
0°-60°	10943.3	98.0
0°-90°	11165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6372	6372	6372	6372	6372	
5°	6331	6336	6350	6367	6363	600
15°	6033	6060	6128	6218	6260	1702
25°	5533	5555	5610	5696	5734	2542
35°	4583	4576	4604	4626	4621	2848
45°	3030	3016	2938	2848	2812	2292
55°	913	949	1010	1050	1069	890
65°	143	143	144	155	150	172
75°	42	38	38	29	27	34
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6371.6	6371.6	6371.6	6371.6	6371.6
2.5°	6376.5	6364.3	6361.9	6369.2	6364.3
5°	6331.4	6336.3	6349.7	6366.8	6363.1
7.5°	6272.9	6281.4	6318.0	6361.9	6372.9
10°	6199.7	6218.0	6261.9	6311.9	6335.1
12.5°	6114.4	6138.8	6202.2	6274.1	6316.8
15°	6032.7	6059.5	6127.8	6218.0	6259.5
17.5°	5930.3	5965.6	6032.7	6130.2	6172.9
20°	5827.9	5859.6	5924.2	6019.3	6066.8
22.5°	5701.1	5724.2	5785.2	5865.7	5914.4
25°	5532.8	5554.8	5609.6	5696.2	5734.0
27.5°	5345.1	5370.7	5420.6	5480.4	5514.5
30°	5123.2	5143.9	5179.2	5232.9	5258.5
32.5°	4873.2	4874.4	4909.8	4950.0	4973.2
35°	4583.0	4575.7	4603.8	4625.7	4620.8
37.5°	4262.4	4263.6	4261.2	4263.6	4268.5
40°	3903.9	3886.9	3900.3	3869.8	3847.9
42.5°	3523.5	3506.5	3454.0	3387.0	3350.4
45°	3029.8	3016.3	2938.3	2848.1	2811.5
47.5°	2487.2	2445.8	2382.4	2305.5	2270.2
50°	1913.0	1908.1	1870.3	1852.0	1820.3
52.5°	1368.0	1368.0	1414.3	1407.0	1405.8
55°	913.2	948.6	1009.5	1049.7	1069.3
57.5°	595.0	627.9	679.1	721.8	741.3
60°	385.3	401.1	437.7	470.6	493.8
62.5°	239.0	252.4	271.9	292.6	301.1
65°	142.6	142.6	143.9	154.8	150.0
67.5°	96.3	100.0	95.1	95.1	107.3
70°	62.2	58.5	57.3	56.1	56.1
72.5°	40.2	34.1	36.6	39.0	34.1
75°	41.5	37.8	37.8	29.3	26.8
77.5°	14.6	15.8	11.0	8.5	7.3
80°	1.2	4.9	4.9	1.2	0.0
82.5°	14.6	13.4	11.0	17.1	11.0
85°	1.2	2.4	1.2	0.0	6.1
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)